

Representation of Multi-Dimensional Information (CROMDI)

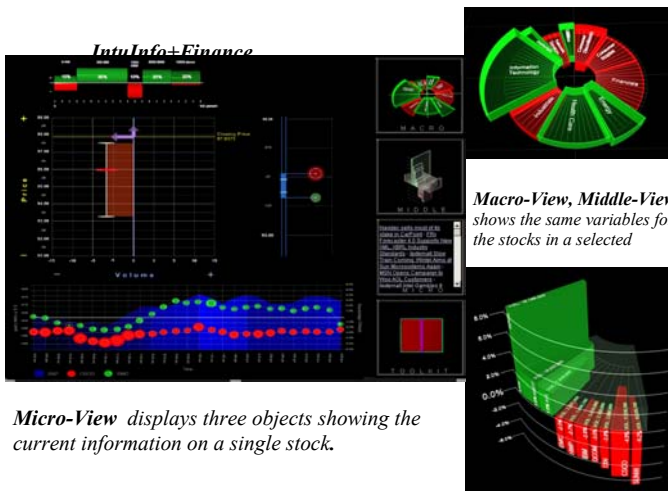
U N I V E R S I T Y O F U T A H

CENTER

The Center for the Representation of Multi-Dimensional Information (CROMDI) was established in 2000 to commercialize a new audio-visualization technology (IntuInfo) that facilitates the rapid and accurate analysis of large quantities of quickly changing data. CROMDI is an interdisciplinary team dedicated to the innovative representation of information, comprised of experts of Architecture, Computer Science, Anesthesia, BioEngineering, Finance, Mathematics, Psychology, Communication and Music. These diverse experts participate with their own unique perspectives and provide solutions to complex information design needs through a unique methodology and iterative process that has been refined over the years.

TECHNOLOGY

IntuInfo embodies the ancient proverb that "a picture is worth ten thousand words." By visually displaying multiple variables using various objects and colors, a wide range of information is clearly presented. The association between the graphical objects and the data is designed to facilitate rapid understanding of large quantities of data. The state of the art in many fields is to represent information with tables of numbers, waveforms, pie charts, diagrams, icons, matrices. IntuInfo enables recognition of events that is significantly faster, more accurate, less mentally demanding and with less training than is possible using existing technologies. This patent pending technology has been applied in medicine, finance, defense, and entertainment, and may also be successfully utilized in other applications where decision making depends on monitoring or analyzing large quantities of information (process control, vehicle operation and traffic control, corporate management, quality assurance, network monitoring).

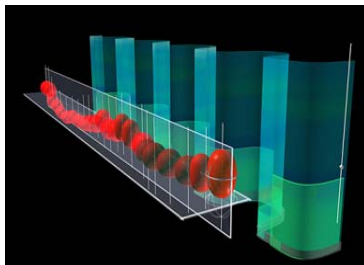


Micro-View displays three objects showing the current information on a single stock.

CROMDI

ACCOMPLISHMENTS

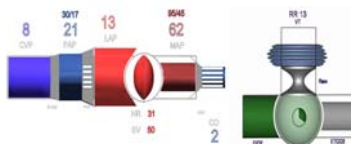
In the second year of funding CROMDI licensed the “cardiovascular display” to GE Medical Systems. Since then, CROMDI received a NASA STTR phase II grant in the amount of \$250,000, awarded for “Graphic Displays to Support Treatment of Medical Emergencies.” CROMDI received a DARPA seed grant to research preliminary audio-visualization concepts to convey to commanders the status of network resources under cyber-attack. Also, to support scheduling problems applying to both resource management and intelligence (detecting patterns of hackers, terrorists, etc.), a new audio-visual concept provisional patent has been filed, a prototype has been developed and contact with several partners has been made to utilize this technology. Several patents were filed in the Medical field ranging from drug display to pulmonary graphic metaphors.



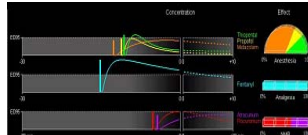
IntuInfo+Anesthesia



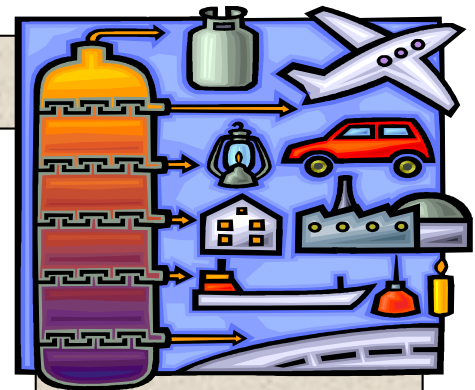
Traditional Anesthesia Display



Cardiovascular and Pulmonary



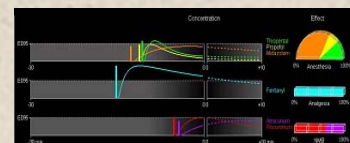
Drug Display



THINK TANK

What if there was...

A more efficient way to evaluate mass amounts of information more clearly and accurately???



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